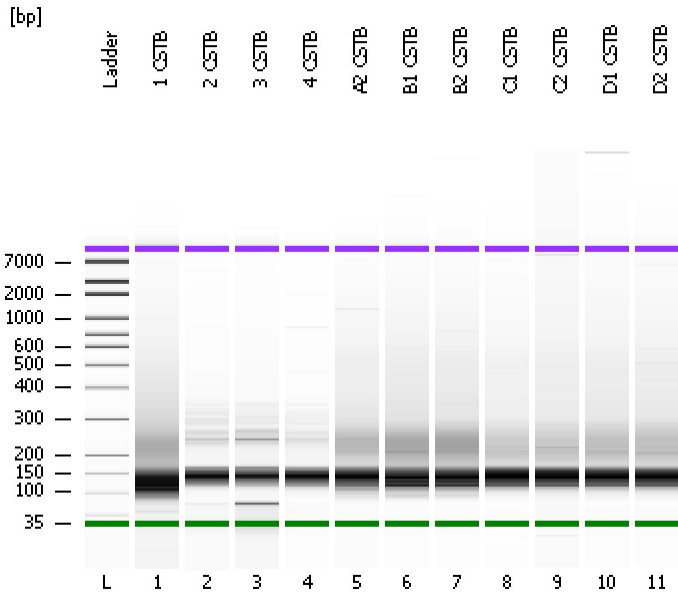


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
Modified: 4/9/2018 1:36:08 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

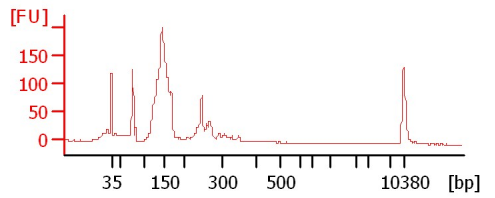
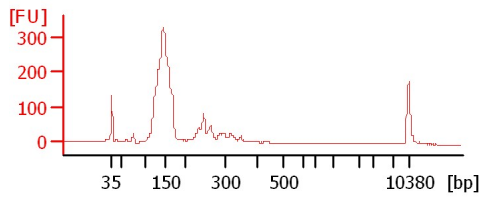
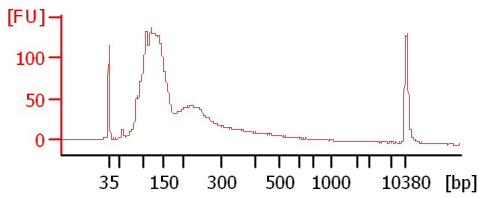
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

1 CSTB

2 CSTB

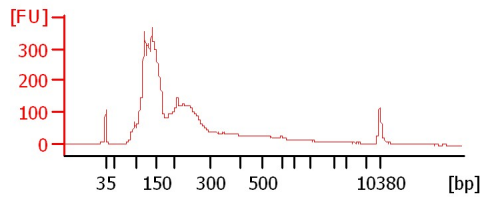
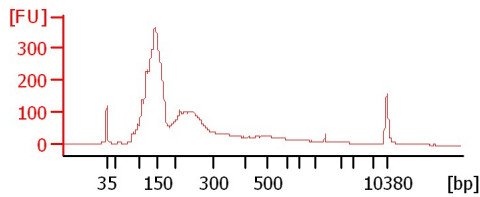
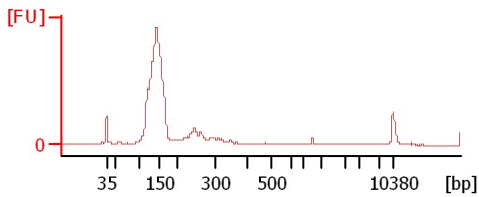
3 CSTB



4 CSTB

A2 CSTB

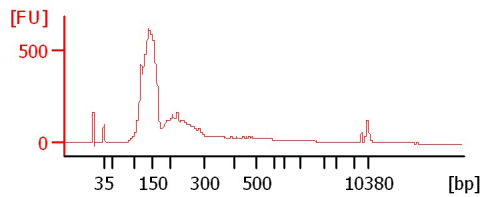
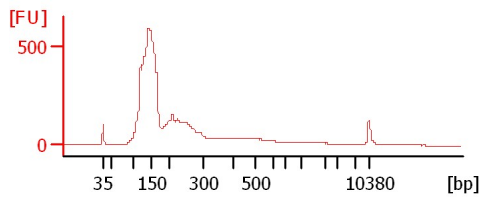
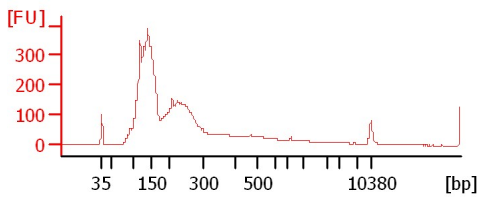
B1 CSTB



B2 CSTB

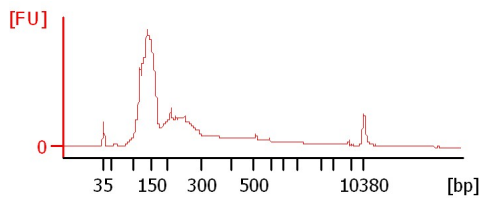
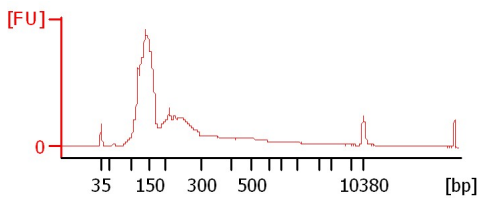
C1 CSTB

C2 CSTB



D1 CSTB

D2 CSTB



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 CSTB		<input type="checkbox"/>	✓			
2 CSTB		<input type="checkbox"/>	✓			
3 CSTB		<input type="checkbox"/>	✓			
4 CSTB		<input type="checkbox"/>	✓			
A2 CSTB		<input type="checkbox"/>	✓			
B1 CSTB		<input type="checkbox"/>	✓			
B2 CSTB		<input type="checkbox"/>	✓			
C1 CSTB		<input type="checkbox"/>	✓			
C2 CSTB		<input type="checkbox"/>	✓			
D1 CSTB		<input type="checkbox"/>	✓			
D2 CSTB		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

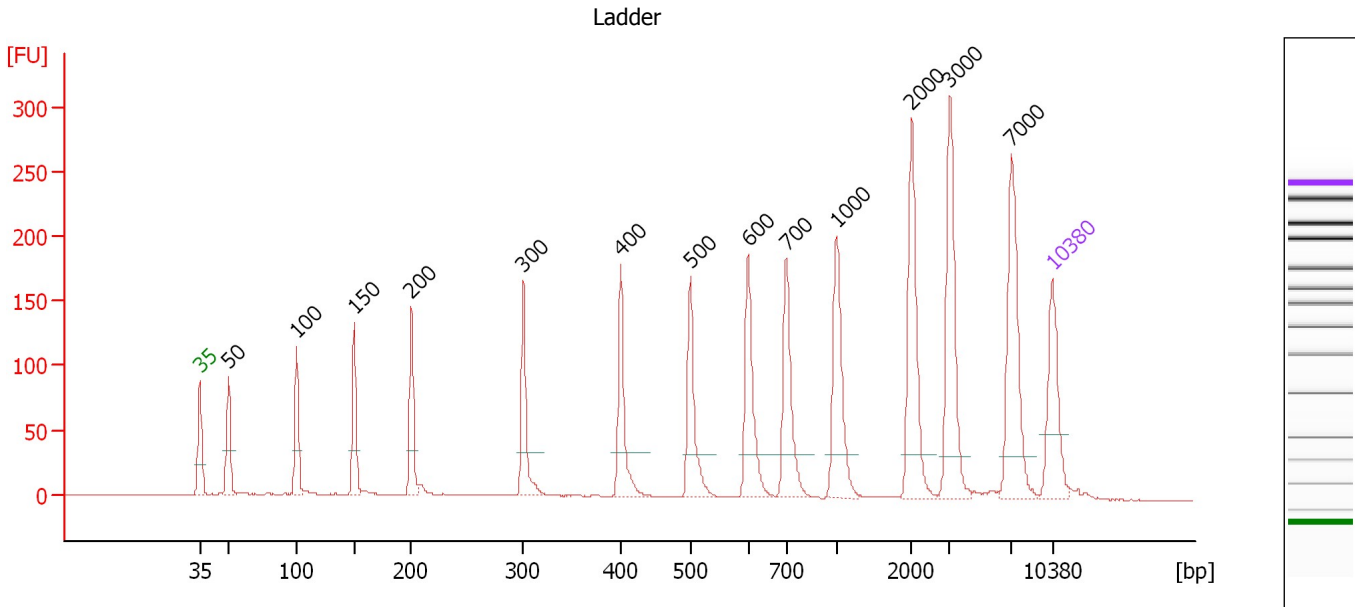
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

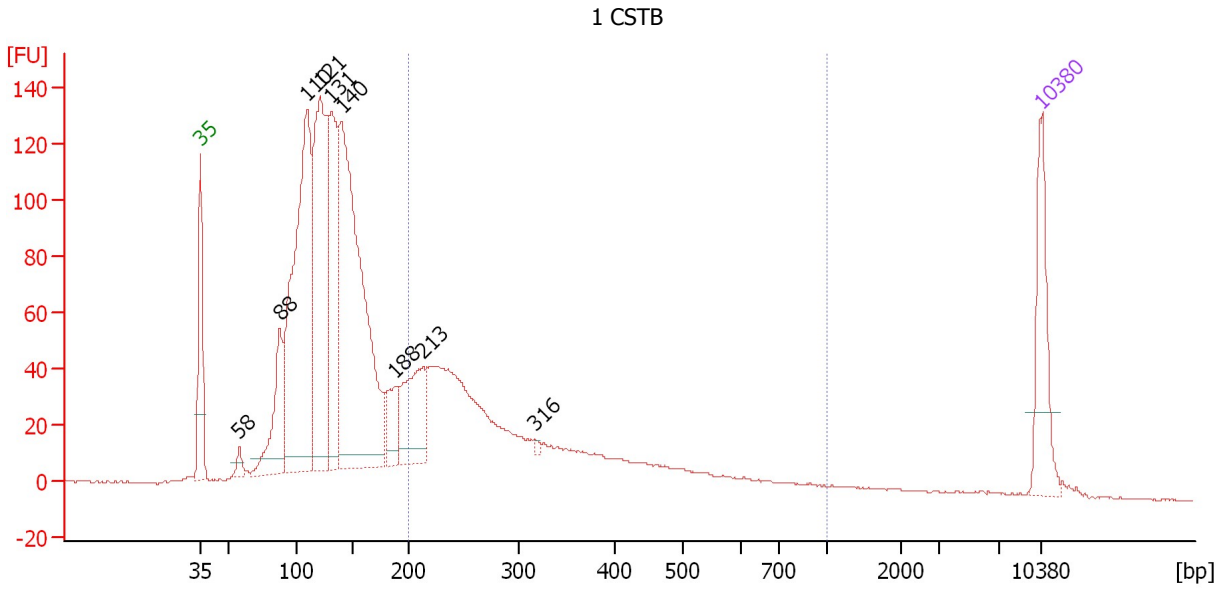
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.36
3	100	150.00	2,272.7	Ladder Peak	50.97
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.38
6	300	150.00	757.6	Ladder Peak	69.57
7	400	150.00	568.2	Ladder Peak	77.54
8	500	150.00	454.5	Ladder Peak	83.28
9	600	150.00	378.8	Ladder Peak	88.00
10	700	150.00	324.7	Ladder Peak	91.16
11	1,000	150.00	227.3	Ladder Peak	95.27
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.63
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 CSTB

Number of peaks found: 9 Corr. Area 1: 813.3
 Noise: 0.4

Peak table for sample 1 : 1 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	58	15.42	403.8		46.24
3	88	132.14	2,275.2		49.62
4	110	547.25	7,555.4		51.89
5	121	406.83	5,073.6		53.00
6	131	234.86	2,708.9		53.93
7	140	627.16	6,773.2		54.78
8	188	56.48	456.0		59.22
9	213	124.94	890.6		61.53
10	316	4.09	19.6		70.87
11	10,380	75.00	10.9	Upper Marker	113.00

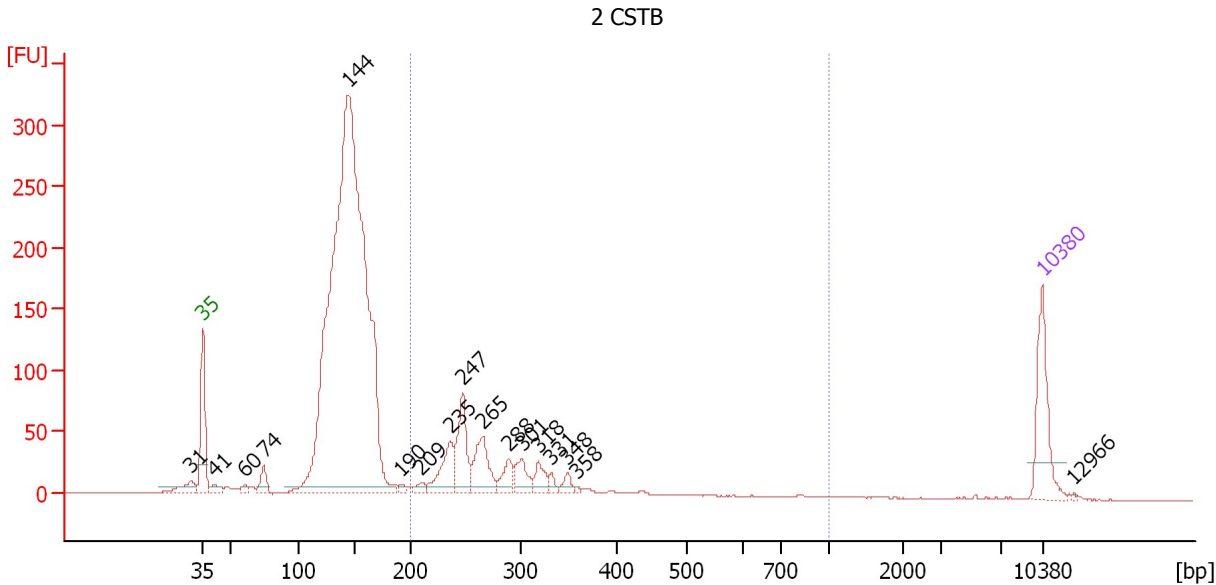
Region table for sample 1 : 1 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	329	778.11	813.3	4,201.6	29	42.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2 CSTB

Number of peaks found: 17 Corr. Area 1: 586.0
 Noise: 0.2

Peak table for sample 2 : 2 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.98
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	14.52	533.9		43.98
4	60	9.30	233.8		46.51
5	74	26.73	546.2		48.07
6	144	1,894.38	19,913.5		55.14
7	190	5.88	46.9		59.45
8	209	10.01	72.6		61.19
9	235	67.41	434.8		63.59
10	247	91.16	560.2		64.66
11	265	75.16	429.9		66.35
12	288	30.17	158.7		68.48
13	301	36.24	182.5		69.64
14	318	25.30	120.7		70.97
15	331	8.78	40.2		72.04
16	348	12.52	54.5		73.42
17	358	2.39	10.1		74.18
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,966	0.00	0.0		115.58

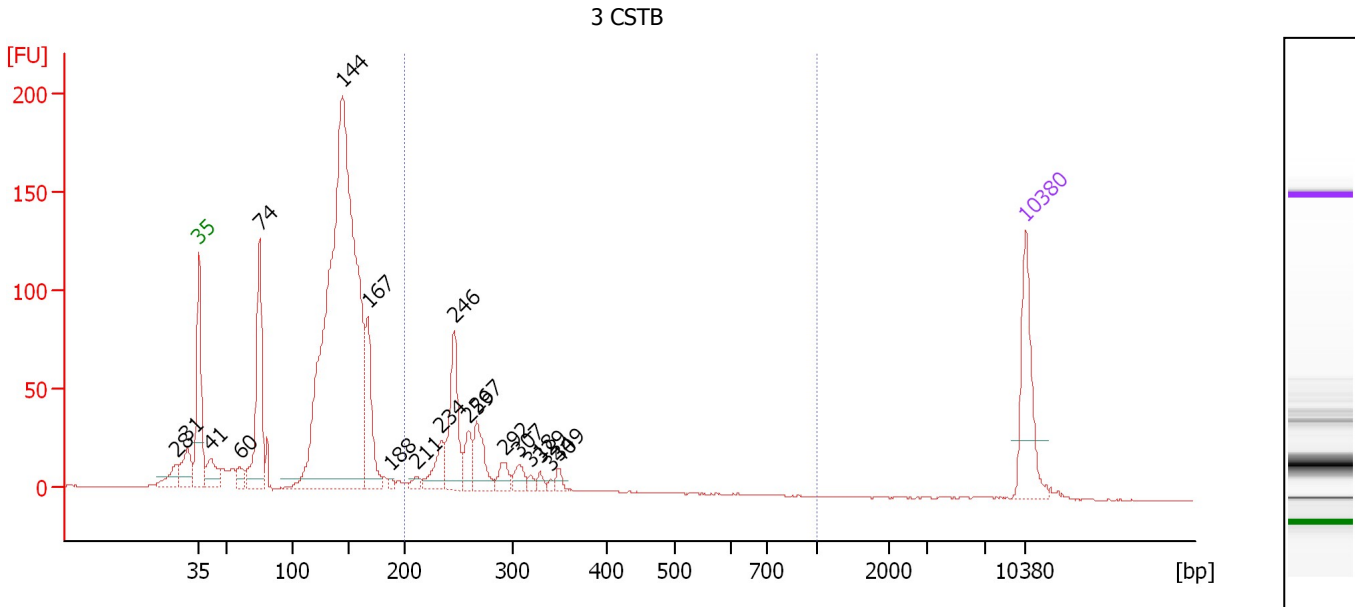
Region table for sample 2 : 2 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	300	447.54	586.0	2,452.7	21	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 CSTB

Number of peaks found: 19 Corr. Area 1: 357.2
 Noise: 0.2

Peak table for sample 3 : 3 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.01
2	31	0.00	0.0		41.96
3	35	125.00	5,411.3	Lower Marker	43.00
4	41	46.41	1,702.5		43.99
5	60	19.84	505.1		46.43
6	74	193.15	3,931.2		48.10
7	144	1,212.73	12,783.5		55.10
8	167	115.14	1,045.7		57.27
9	188	5.93	47.9		59.21
10	211	9.28	66.5		61.43
11	234	44.70	289.5		63.50
12	246	108.16	666.8		64.59
13	259	34.67	202.8		65.81
14	267	54.68	310.4		66.53
15	292	20.61	107.0		68.83
16	307	18.65	92.1		70.10
17	318	6.60	31.4		71.05
18	329	7.54	34.8		71.86
19	340	4.00	17.8		72.76
20	349	9.27	40.3		73.44
21	10,380	75.00	10.9	Upper Marker	113.00

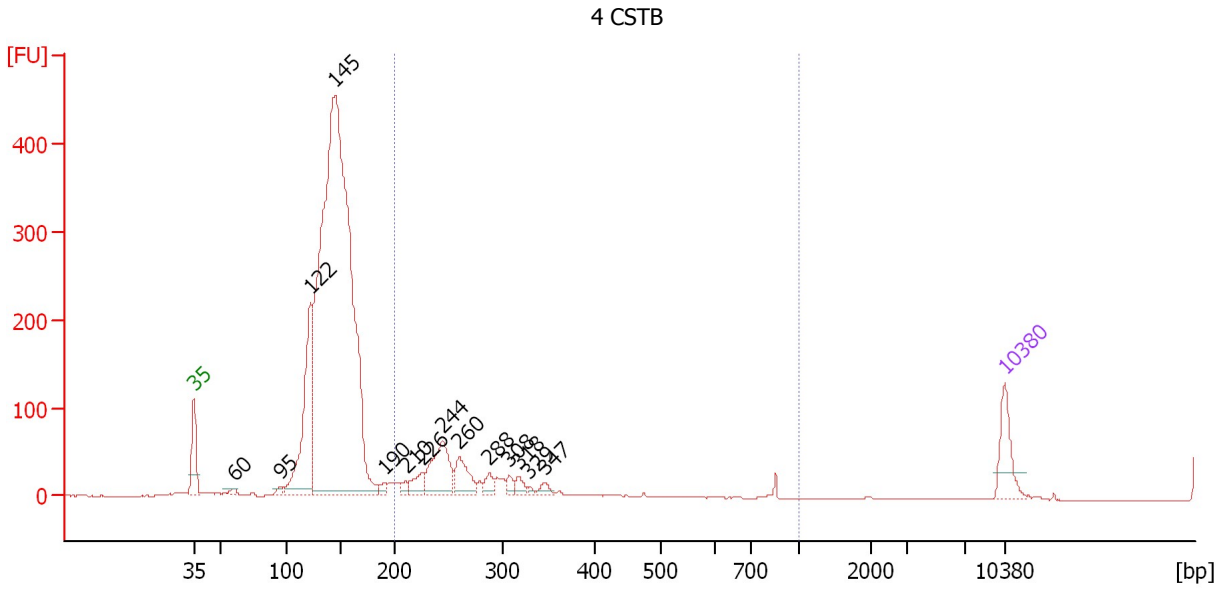
Region table for sample 3 : 3 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	275	350.50	357.2	2,005.4	19	21.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4 CSTB

Number of peaks found: 14 Corr. Area 1: 612.2
 Noise: 0.3

Peak table for sample 4 : 4 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	60	10.93	277.3		46.45
3	95	12.45	198.6		50.41
4	122	462.21	5,747.8		53.03
5	145	2,976.35	31,161.5		55.20
6	190	15.75	125.7		59.43
7	210	15.89	114.8		61.27
8	226	44.65	299.8		62.74
9	244	172.33	1,069.1		64.45
10	260	88.57	515.6		65.92
11	288	26.91	141.4		68.50
12	308	20.53	100.8		70.25
13	318	22.86	108.8		71.03
14	329	6.69	30.8		71.90
15	347	17.05	74.4		73.33
16	10,380	75.00	10.9	Upper Marker	113.00

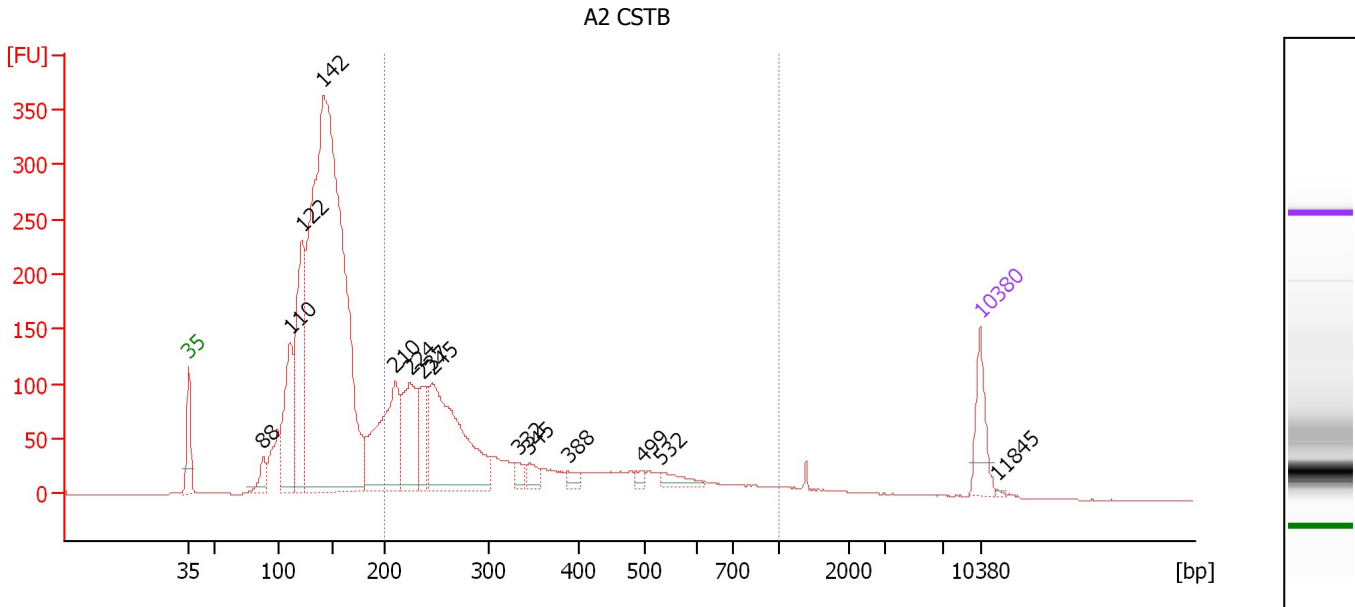
Region table for sample 4 : 4 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	302	589.61	612.2	3,285.8	16	39.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A2 CSTB

Number of peaks found: 14 Corr. Area 1: 1,874.0
 Noise: 0.3

Peak table for sample 5 : A2 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	88	58.01	1,001.2		49.60
3	110	295.32	4,051.0		51.96
4	122	454.58	5,649.2		53.04
5	142	2,550.36	27,239.0		54.93
6	210	377.24	2,723.1		61.29
7	224	231.45	1,563.7		62.61
8	237	112.85	722.8		63.74
9	245	525.88	3,248.5		64.54
10	332	26.34	120.2		72.13
11	345	32.32	142.1		73.12
12	388	20.93	81.8		76.56
13	499	15.30	46.5		83.21
14	532	34.90	99.3		84.81
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,845	0.00	0.0		114.46

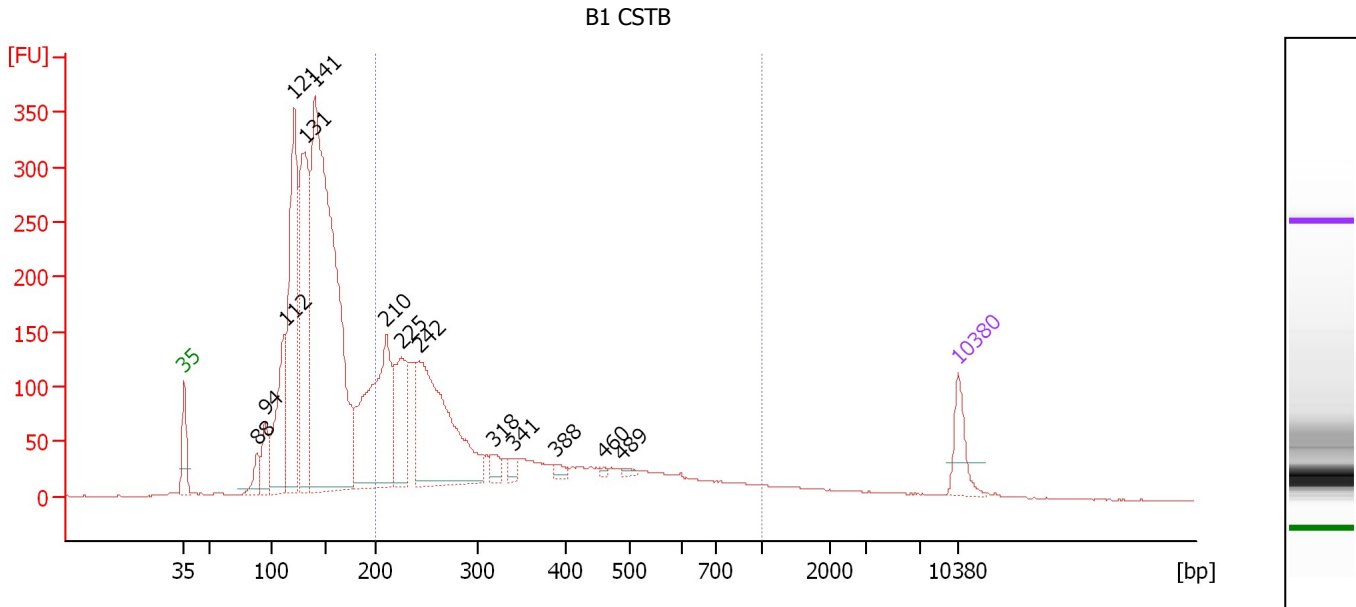
Region table for sample 5 : A2 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	342	1,717.57	1,874.0	9,179.8	35	44.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B1 CSTB

Number of peaks found: 14 Corr. Area 1: 2,295.3
 Noise: 0.2

Peak table for sample 6 : B1 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	88	74.42	1,283.1		49.61
3	94	129.61	2,081.6		50.33
4	112	368.89	5,005.7		52.07
5	121	800.44	10,036.5		52.94
6	131	741.11	8,568.9		53.90
7	141	2,214.95	23,759.8		54.87
8	210	678.56	4,899.6		61.28
9	225	284.13	1,917.3		62.63
10	242	740.87	4,631.4		64.27
11	318	37.10	176.6		71.03
12	341	26.21	116.6		72.81
13	388	20.23	79.0		76.58
14	460	7.42	24.4		80.97
15	489	10.44	32.3		82.66
16	10,380	75.00	10.9	Upper Marker	113.00

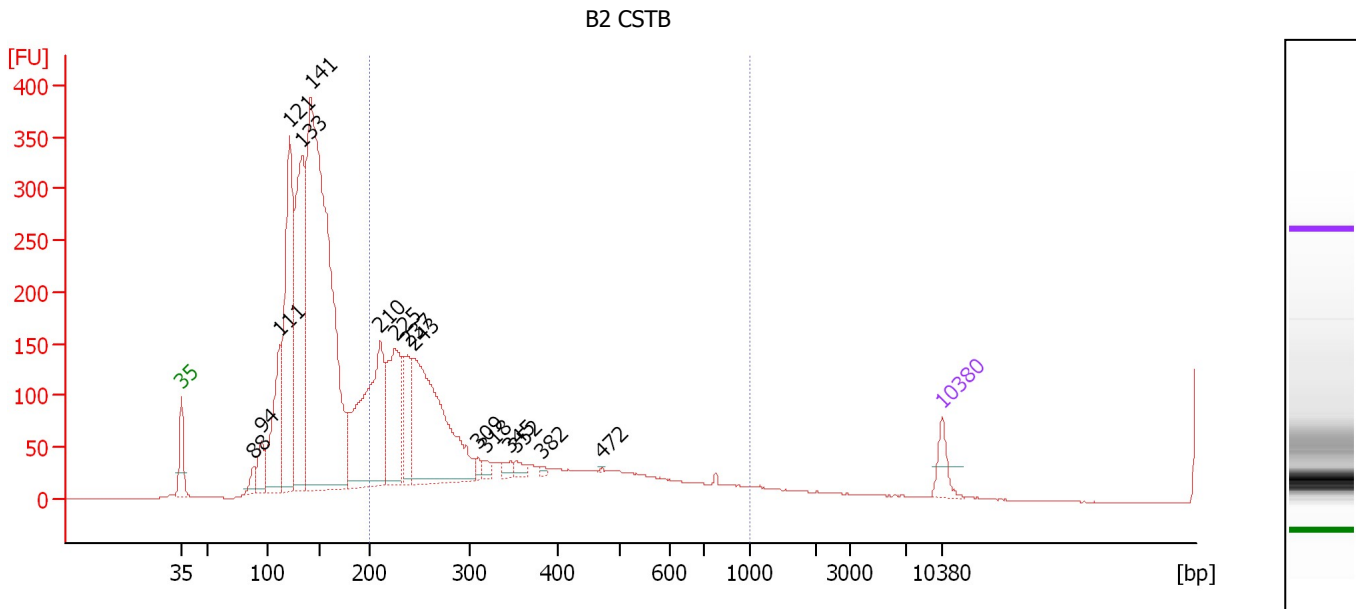
Region table for sample 6 : B1 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	340	2,463.15	2,295.3	13,277.6	37	45.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : B2 CSTB

Number of peaks found: 16 Corr. Area 1: 2,485.3
 Noise: 0.2

Peak table for sample 7 : B2 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	88	69.59	1,197.6		49.63
3	94	157.70	2,537.4		50.31
4	111	567.95	7,734.4		52.03
5	121	1,292.67	16,170.1		52.96
6	133	1,294.98	14,745.5		54.09
7	141	3,717.84	39,846.5		54.88
8	210	1,078.86	7,779.6		61.31
9	225	606.86	4,095.0		62.64
10	237	271.51	1,737.1		63.76
11	243	1,171.53	7,297.9		64.35
12	309	34.25	167.9		70.29
13	318	32.99	157.1		71.03
14	345	32.32	141.8		73.19
15	352	39.75	171.0		73.73
16	382	13.25	52.6		76.09
17	472	2.96	9.5		81.68
18	10,380	75.00	10.9	Upper Marker	113.00

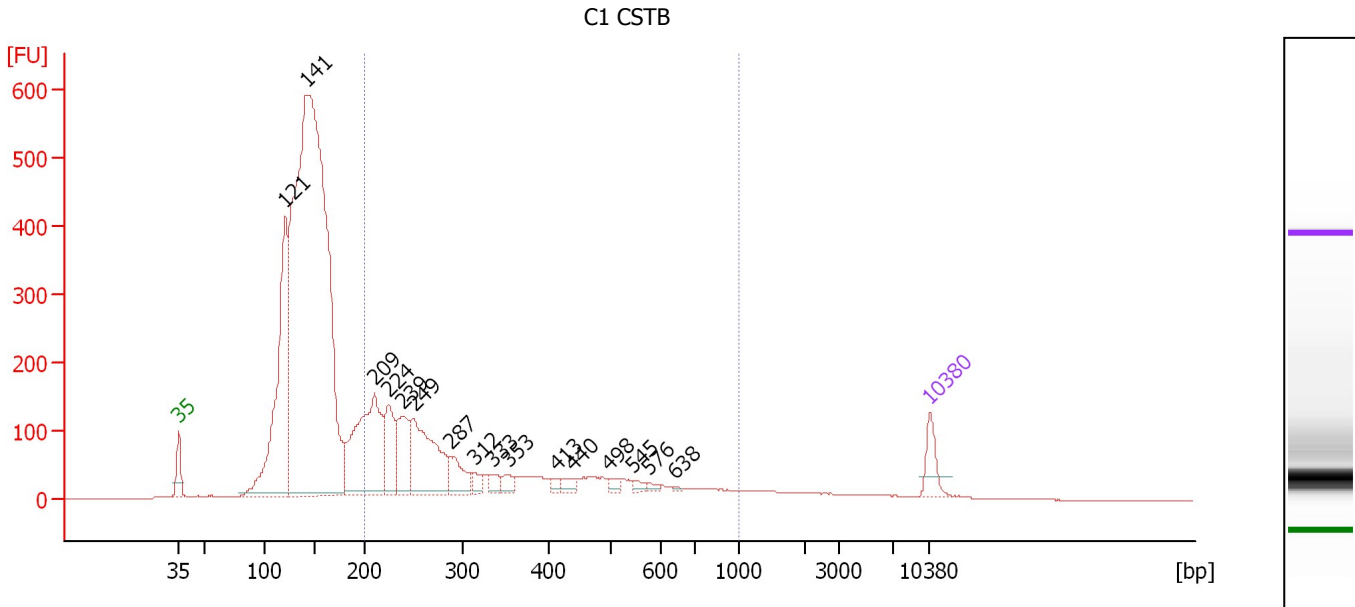
Region table for sample 7 : B2 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	338	4,392.00	2,485.3	23,746.8	39	45.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C1 CSTB

Number of peaks found: 16 Corr. Area 1: 2,346.4
 Noise: 0.3

Peak table for sample 8 : C1 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	121	1,250.52	15,672.6		52.94
3	141	5,080.01	54,434.6		54.88
4	209	783.50	5,668.6		61.25
5	224	255.97	1,731.2		62.59
6	239	247.34	1,566.9		63.98
7	249	516.45	3,137.0		64.92
8	287	139.54	737.3		68.36
9	312	40.97	198.9		70.54
10	333	42.06	191.1		72.23
11	353	41.88	179.9		73.77
12	413	20.08	73.6		78.30
13	440	35.97	123.8		79.84
14	498	24.82	75.5		83.17
15	545	20.20	56.2		85.41
16	576	13.91	36.6		86.85
17	638	4.95	11.8		89.19
18	10,380	75.00	10.9	Upper Marker	113.00

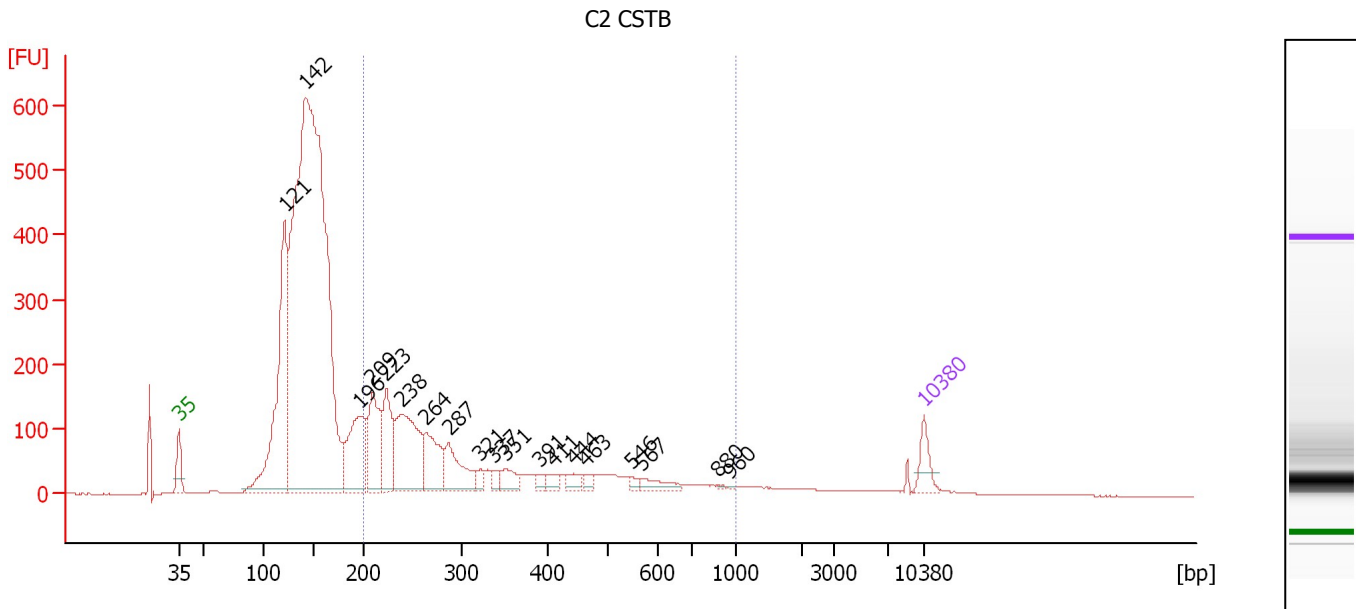
Region table for sample 8 : C1 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	343	2,474.73	2,346.4	13,250.5	30	45.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C2 CSTB

Number of peaks found: 19 Corr. Area 1: 2,412.4
 Noise: 0.2

Peak table for sample 9 : C2 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	121	1,374.15	17,265.9		52.91
3	142	5,714.24	61,071.1		54.92
4	196	483.17	3,741.3		59.97
5	209	414.54	3,010.1		61.18
6	223	319.24	2,170.8		62.48
7	238	590.15	3,755.9		63.88
8	264	286.82	1,648.1		66.23
9	287	238.75	1,262.4		68.34
10	321	45.35	214.1		71.24
11	337	37.79	170.1		72.49
12	351	80.49	347.4		73.64
13	391	31.87	123.6		76.80
14	411	45.73	168.7		78.15
15	444	50.22	171.5		80.05
16	463	31.02	101.5		81.15
17	546	20.33	56.4		85.46
18	567	58.19	155.4		86.46
19	880	5.12	8.8		93.62
20	960	3.85	6.1		94.72
21	10,380	75.00	10.9	Upper Marker	113.00

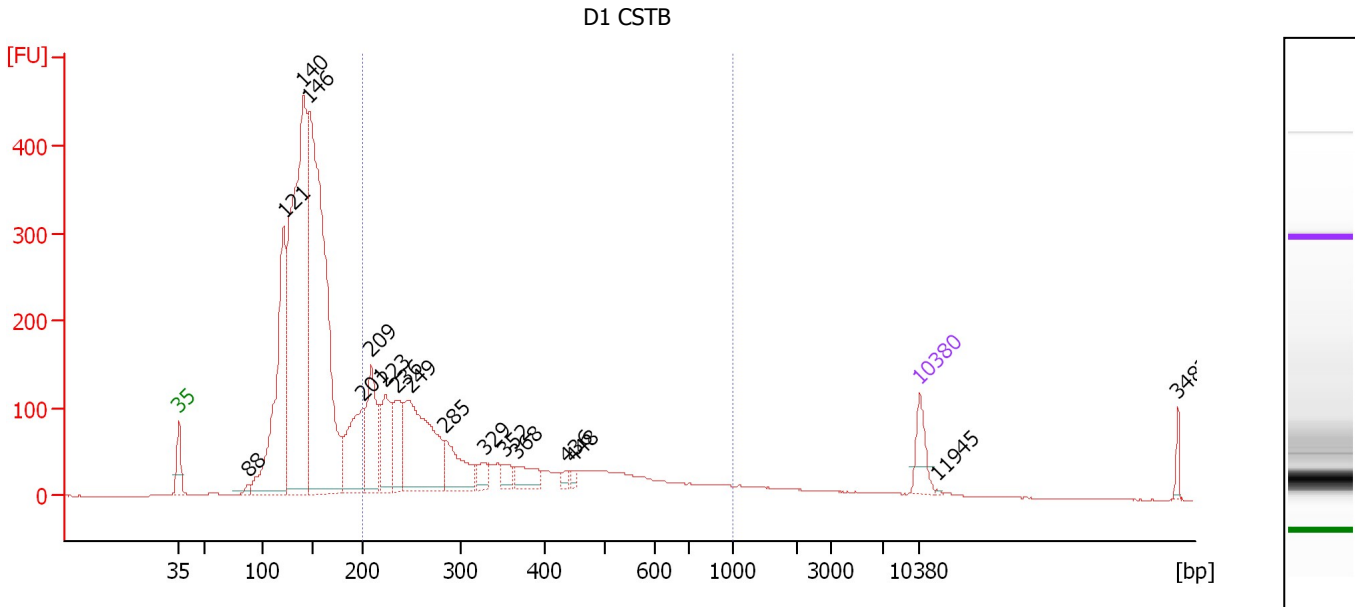
Region table for sample 9 : C2 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	342	2,863.38	2,412.4	15,348.0	30	45.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : D1 CSTB

Number of peaks found: 17 Corr. Area 1: 2,257.9
 Noise: 0.2

Peak table for sample 10 : D1 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	88	23.80	410.8		49.60
3	121	1,005.40	12,625.2		52.92
4	140	1,950.90	21,059.1		54.78
5	146	2,182.23	22,612.4		55.34
6	201	383.67	2,891.6		60.47
7	209	343.75	2,489.0		61.23
8	223	270.74	1,835.4		62.54
9	236	186.94	1,202.5		63.65
10	249	605.65	3,689.9		64.86
11	285	204.52	1,085.8		68.23
12	329	52.70	242.5		71.91
13	352	48.42	208.4		73.72
14	368	89.81	369.9		74.98
15	436	17.46	60.7		79.61
16	448	16.41	55.5		80.32
17	10,380	75.00	10.9	Upper Marker	113.00
18	11,945	0.00	0.0		114.56
19	34,820	0.00	0.0		137.37

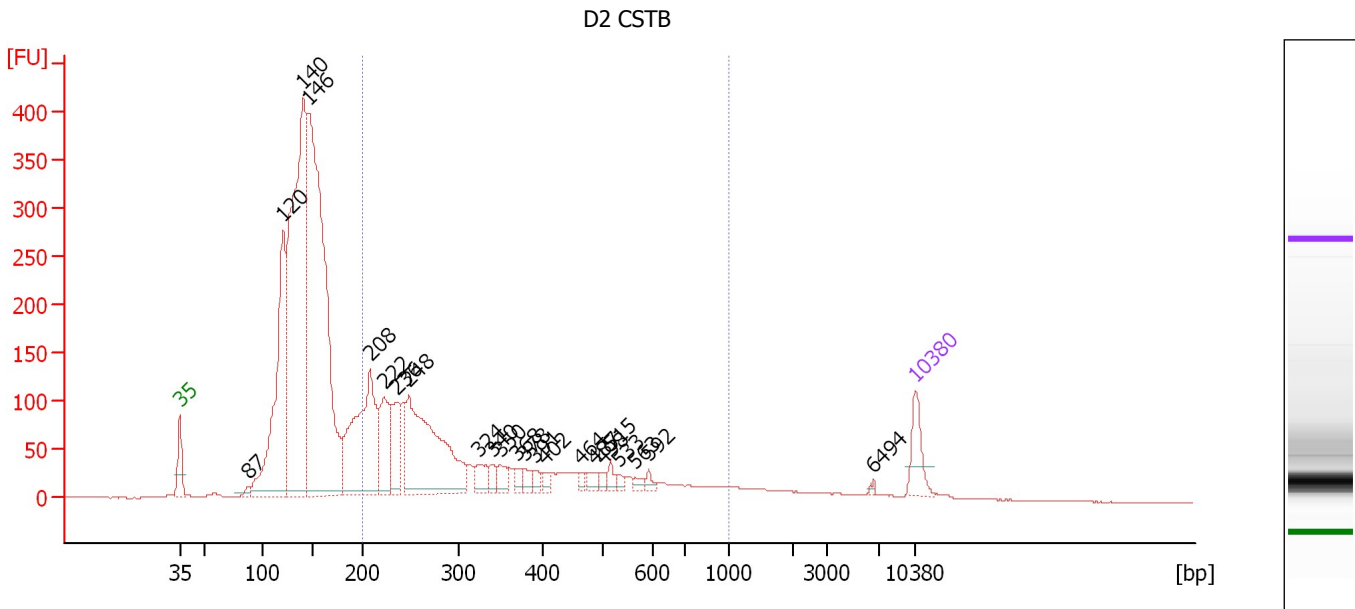
Region table for sample 10 : D1 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	349	2,656.64	2,257.9	14,006.4	35	45.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
 Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : D2 CSTB

Number of peaks found: 23 Corr. Area 1: 2,053.4
 Noise: 0.2

Peak table for sample 11 : D2 CSTB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	87	18.31	317.7		49.54
3	120	861.80	10,898.6		52.84
4	140	1,716.21	18,548.1		54.77
5	146	1,943.76	20,233.2		55.28
6	208	633.16	4,601.5		61.16
7	222	212.11	1,445.9		62.43
8	236	166.06	1,068.3		63.64
9	248	681.09	4,157.6		64.81
10	324	56.31	263.6		71.46
11	340	32.04	143.0		72.72
12	350	40.53	175.6		73.54
13	368	29.83	122.8		75.01
14	378	28.75	115.1		75.82
15	391	18.80	72.8		76.83
16	402	18.24	68.8		77.64
17	464	17.36	56.7		81.20
18	487	30.13	93.8		82.51
19	498	15.81	48.1		83.17
20	515	24.53	72.2		83.99
21	533	12.91	36.7		84.85
22	563	15.61	42.0		86.27
23	592	13.71	35.1		87.64
24	6,494	4.73	1.1		108.99
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
Modified: 4/9/2018 1:36:08 PM

Electropherogram Summary Continued ...

... Region table for sample 11 : D2 CSTB

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	351	2,338.86	2,053.4	12,290.7	 36	45.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-09\2018-04-09_002.xad

Created: 4/9/2018 11:24:53 AM
Modified: 4/9/2018 1:36:08 PM

Gel Image

